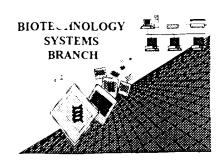
0590

RAW SEQUENCE LISTING ERROR REPORT



The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) detected errors when processing the following computer readable form:

Application Serial Number:	09/911, 826
Source:	OPE
Date Processed by STIC:	8/7/2001

THE ATTACHED PRINTOUT EXPLAINS DETECTED ERRORS.
PLEASE FORWARD THIS INFORMATION TO THE APPLICANT BY EITHER:

- 1) INCLUDING A COPY OF THIS PRINTOUT IN YOUR NEXT COMMUNICATION TO THE APPLICANT, WITH A NOTICE TO COMPLY or,
- 2) TELEPHONING APPLICANT AND FAXING A COPY OF THIS PRINTOUT, WITH A NOTICE TO COMPLY

FOR CRF SUBMISSION QUESTIONS, PLEASE CONTACT MARK SPENCER, 703-308-4212.

FOR SEQUENCE RULES INTERPRETATION, PLEASE CONTACT ROBERT WAX, 703-308-4216. PATENTIN 2.1 e-mail help: <u>patin21help@uspto.gov</u> or phone 703-306-4119 (R. Wax) PATENTIN 3.0 e-mail help: <u>patin3help@uspto.gov</u> or phone 703-306-4119 (R. Wax)

TO REDUCE ERRORED SEQUENCE LISTINGS, PLEASE USE THE CHECKER VERSION 3.0 PROGRAM, ACCESSIBLE THROUGH THE U.S. PATENT AND TRADEMARK OFFICE WEBSITE. SEE BELOW:

Checker Version 3.0

The Checker Version 3.0 application is a state-of the-art Windows based software program employing a logical and intuitive user-interface to check whether a sequence listing is in compliance with format and content rules. Checker Version 3.0 works for sequence listings generated for the original version of 37 CFR §§1.821 – 1.825 effective October 1, 1990 (old rules) and the revised version (new rules) effective July 1, 1998 as well as World Intellectual Property Organization (WIPO) Standard ST.25.

Checker Version 3.0 replaces the previous DOS-based version of Checker, and is Y2K-compliant. Checker allows public users to check sequence listings in Computer Readable form (CRF) before submitting them to the United States Patent and Trademark Office (USPTO). Use of Checker prior to filing the sequence listing is expected to result in fewer errored sequence listings, thus saving time and money

Checker Version 3.0 can be down loaded from the USPTO website at the following address: http://www.uspto.gov/web/offices/pac/checker

Raw Sequence Listing Error Summary

RROR DETECTED	SUGGESTED CORRECTION	SERIAL NUMBER:	07/91/,826	• •								
	S: PLEASE DISREGARD ENGLISH "/	alpha" headers, whi	CII WERE INSERTED BY P	ro so								
1Wrapped Nucleics Wrapped Aminos	The number/text at the end of each line was retrieved in a word processor after prevent "wrapping."	"wramed" down to the next	line. This may occur if your file									
2Invalid Line Length	The rules require that a line not exceed											
3Misaligned Amino Numbering	The numbering under each 5th amino acid is misaligned. Do not use tab codes between numbers; use space characters, instead.											
4Non-ASCII	The submitted file was not saved in ASCII(DOS) text, as required by the Sequence Rules. Please ensure your subsequent submission is saved in ASCII text.											
5Variable Length	Sequence(s) contain n's or Xaa's re each n or Xaa can only represent a su residue having variable length and indic	cate in the <220>-<223> sect	ion that some may be missing.									
6PatentIn 2.0 "bug"	A "bug" in PatentIn version 2.0 has casus sequences(s)	Please manually copy the r	elevant <220>-<223> section to									
7Skipped Sequences (OLD RULES)	(2) INFORMATION FOR SEQ ID NO (i) SEQUENCE CHARACTES (xi) SEQUENCE DESCRIPTION:SEQ This sequence is intentionally skipped	:X: (insert SEQ ID NO wher: RISTICS: (Do not insert any ID NO:X: (insert SEQ ID N	O where "X" is shown)									
,	Please also adjust the "(ii) NUMBER O											
8 Skipped Sequences (NEW RULES)	Sequence(s) missing. If Intenti <210> sequence id number <400> sequence id number 000	ional, please insert the follow	ving lines for each skipped seque	ince.								
Use of n's or Xaa's (NEW RULES)	Use of n's and/or Xaa's have been dete Per 1.823 of Sequence Rules, use of <2 In <220> to <223> section, please expl	202-62212 K MANDATUK	I II II 2 Of VES 2 are breach.	nts.								
10 Invalid <213> Response	Per 1.823 of Sequence Rules, the only scientific name (Genus/species). <220 is Artificial Sequence	valld <213> responses are: U >.<223> section is required	Inknown, Artificial Sequence, or when <213> response is Unknov	₩n or								
Use of <220>	Sequence(s) missing the <22 Use of <220> to <223> is MANDATO! "Unknown." Please explain source of (See "Federal Register," 06/01/1998, V	RY if <213> "Organism" res	<113 > Section.									
Patentin 2.0 "bug"	Please do not use "Copy to Disk" funct resulting in missing mandatory numeri listing). Instead, please use "File Man	tion of PatentIn version 2.0. c. identifiers and responses (a	This causes a corrupted file, s indicated on raw sequence									
13 <u>.</u> Misuse of n	n can only be used to represent a single any value not specifically a nucleotide.	e nucleotide in a nucleic acid	sequence. N is not used to repr	esent								

AMC/MH - Biotechnology Systems Branch - 08/21/2001

OIPE

RAW SEQUENCE LISTING PATENT APPLICATION: US/09/911,826 Input Set: A:\sequence-as filed.txt Output Set: N:\CRF3\08072001\1911826.raw

3 <110> APPLICANT: HSC Research Development limited Partnership et al. 5 <120 * TITLE OF INVENTION: RAS Activator Nucleic Acid Molecules, Polypeptides and Methods of Use # <130 * FILE REFERENCE: 1786/0019

Cr-> 10 <140> CURRENT APPLICATION NUMBER: US/09/911,826

11 <141> CURRENT FILING DATE: 2001-07-20

13 <150 * PRIOR APPLICATION NUMBER: 2,259,630

14 <151: PRIOR FILING DATE: 1999-01-20 16 <160: NUMBER OF SEQ ID NOS: 27 18 <170: SOFTWARE: Patentin Ver. 2.1

ERRORED SEQUENCES

Does Not Comply
Corrected Diskette Needed

6+6 H2105 SEQ IE NO: 4 697 - 1011 - LENGTH: 286 698 HZ12H TYFE: PRT 699 1213 CRGANISM: Homo sapiens 701 - 400. SEQUENCE: 4 702 Thr Lys Gly Asr. Lys Ser Trp Ser Ser Thr Ala Val Ala Ala Ala Leu 703 1 705 Glu Leu Val Asp Pro Pro Gly Cys Arg Asn Ser Ser Gly Gly Lys Asp 70% Val Ser Ala Glu Ala Glu Ser Ser Ser Met Val Pro Val Thr Thr Glu 709 40 711 Glu Ala Lys Pro Val Pro Met Pro Ala His Ile Ala Val Thr Pro Ser 712 50 55 714 Thr Thr Lys Gly Leu Ile Ala Arg Lys Glu Gly Arg Tyr Arg Glu Pro 715 65 717 Pro Pro Thr Pro Pro Gly Tyr Val Gly lle Fro Ile Ala Asp Phe Fro 718 7.0 Glu Gly Pro Cya His Fro Ala Arg Lys Fro Fro Asp Tyr Asn Val Ala 7.1 7.3 Leu Glm Arg Ser Ary Met Mal Ala Arg Fro Thr Blu Ala Pro Ala Fro 115 700 Gly Glr. Thr Pro Pro Ala Ala Ala Ala Cor Ari Pro Gly Ser Lys Pro 130 135 7.9 3ln Trp His Lys Pro Ser Asp Ala Asp Fro Art Leu Ala Pro Phe (4ln 7 1 145 THE Ala Ala Ser His Ser Gly Thr Ser Ero Ala Thr Hin Thr His Ala Ser 700 Arg Pro Ser Arg Sin Ala Ser Win Glo Arg Arg Arg Thr Lys Met Ash E--> 738 Lys Cys Leu Leu Phe Glu Ala Gln Ala Pro Xaa Ser Thr Val Ser His · · · \$ à 145 T41 Fro Lys 31d Net The Ard Ard Ata Etc. Lys Etc. Tip Net Lett 31y Thr

Star 9 in Errar Juman Steet 87

file://C:\Crf3\Outhold\VsrI911826.htm

RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/911,826

DATE: 08/407/2001 TIME: 13:57:46

intut Set : A:\sequence-as filed.txt Cutput Set: N:\CRF3\08072001\I911826.raw

E--> 744 His Ile Xaa Gly Trp Trp Thr Ser Leu Pro Pro Ser Leu Pro Xaa Ser 745 325 230 240

747 Ser Met Gly Leu Leu Leu Pro Phe Phe Leu der Fro Leu His Val Lys 748

245 20.

E--> 750 Tyr Cys Glu Glu Ile Ala Leu Ala Leu Cys Arg Leu Val Ala Xaa Asn 751 260 265

E--> 753 Ala Gln Pro Ser Ser Pro Xaa Ala Ala Ala Cys His Val Thr 754 275 280

797 HL105 SEQ ID NO: 5

708 HU110 LENGTH: 245

750 (L12) TYPE: PRT

760 - 1113: DRGANISM: Homo sapiens

761 - 400> SEQUENCE: 5

E--> 763 Leu Lys Gly Thr Lys Ala Gly Ala Pro Pro Arg Trp Arg Pro Leu Xaa

E--> 766 Asn Xaa Trp Ile Pro Arg Ala Ala Gly Ile Gln Ala Val Gly Arg Met 25 30 20

E--> 769 Ser Pro Leu Arg Gln Arg Ala Ala Ala Trp Cys Pro Xaa Leu Gln Arg 770 3.5 40

E--> 772 Lys Pro Asn Leu Ser Leu Cys Leu Pro Thr Xaa Leu Xaa Arg Arg Ala

773 50 55 775 Leu Pro Arg Asp Ser Ser His Gly Arg Lys Ala Gly Thr Gly Ser Arg 776 65

7.0 77% Leu Pro His Leu Gln Ala Thr Trp Ala Ser Pro Leu Pro Ile Ser Gln 774

85 90 781 Lys Gly Leu Ala Thr Arg Pro Gly Ser Fro Arg Ile Thr Thr Trp Pro

731 100 105

784 Cys Ser Gly Pro Ala Trp Trp His Gly Pro Leu Arg Pro Arg His Arg 115

787 Ala Arg Arg Leu Gln Pro Gln Pro Ala Gly Arg Arg Leu Arg Arg 758 130 135 140

E--> 790 Ser Gly Gly Gly Arg Arg Xaa Thr Ser Val Cys Cys Leu Arg Arg Arg 7 -1 145 150 155 1.60

E--> 793 Leu Leu Asp Pro Gln Xaa Ala Thr Gln Arg Arg Ala Gln Glu Asp Val 165

796 Pro Ser Leu Gly Ala Leu Ala Arg Thr Ser Glu Asp Gly Gly Pro Val 180 1 95

734 Cys Leu Leu Pro Cys Leu Lys Ala Ala Trp 31y Ebe Phe Ser Pro Sor

E--> 802 Ser Phe Pro Leu Cys Met Xaa Asn Thr Val Lys Lys Leu Pro Trp His X 12 12 8 ... 213 215

80% Phe Ala Asp Leu Leu Glu Met His Ser Pro Ala Ala Pro Glu Leu

80% Leu Pro Ala Thr Ser

812 FL10 - SEQ ID NA: 6

813 <211 - LENGTH: D66 814 <212 > TYPE: PRT

815 × 213 × ORGANIUM: Homo sapiems

RAW SEQUENCE LISTING DATE: 08/07/2001 PATENT APPLICATION: US/09/911,826 TIME: 13:57:16

Imput Set : A:\sequence-as filed.txt Output Set: N:\CRF3\08072001\I911826.raw

	817	< 4 () ()> SI	13UQE	NCE:	6												/
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		65					7.0					115					54 (j)	
	333 334	Ser	His	Thr	Ser	Arq 85	Leu	Arg	Gly	His	Pro 90	His	Cys	Arg	Phe	Fro 95	Arg	
	836 837	Arg	Ala	Leu	Pro 100	Pro	Gly	Gln	Glu	Ala 105	Fro	Gly	Leu	Gln	Arg 110	Gly	Pro	g
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	8.42	Pro	Asp	Ala	Alā	Cys	Ser	Arg	Ser	Gln	Fro	Ala	Gly	Gln	Gln	Ala	Thr	
	343		130					135					140					
			Ala	Gln	Ala	Glr.		Arg	Arg	Fro	Thr		Arg	Ala	Leu	Pro		
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	849 -	Ala	يز ± د)	Phe	H18	165	Aid	لمايدف	لماسات	дзр	103	HSD	O L U	GIII	Val	i.i.	MId	4
E>		Val	Xaa	Glv	Ala		Ser	Leu	Ile	His	Ser	Glu	Pro	Pro	Lvs	Glv	Glu	Lur '
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	854	His	Lys	Lys	Thr	Ser	Gln	Ala		Glu	Pro	Trp	His		His	Leu	Arg	
	855			195					200					205				`
	857	Met	Val	Asp	Gln	Phe	Ala	Ser	Phe	Pro	Ala	Leu	Lys	Gln	His	Gly	Ala	- 9
F \	606	C	210	D	T	T	D	215 Dho	Dwo	Dho	11 -	C	220	Tlo	Tou	Vaa	λκα	Jew J
E>	960	225	ser	Pro	Leu	теп	230	Pne	PLO	Pne	Ата	235	GIU	116	Leu	naa	240	wow!
	853	Asn	Cys	Fro	317	Thr	Leu	Gln	Thr	Cys	Cys	Leu	Lys	Cys	Thr	Ala	Gln	
	564		•		•	245				•	, in the second		=	-		255		
		Gln	Pro	Leu		Cys	Cys	Leu	Fro	Arg	His							
	867				260					165								

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VERIFICATION SUMMARY

PATENT APPLICATION: US/09/911,826

DATE: 08/07/2001 TIME: 13:57:07

Input Set : A:\sequence-as filed.txt
Output Set: N:\CRF3\08072001\1911826.raw

- L:10 M:270 C: Current Application Number differs, Replaced Current Application Number
- L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date
- L:436 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:1
- L:738 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:4
- M:340 Repeated in SeqNo=4
- L:763 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:5
- M:340 Repeated in SeqNo=5
- L:818 M:340 E: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
- M:340 Repeated in SeqNo=6
- L:1235 M:258 W: Mandatory Feature missing, <2210 not found for SEQ ID#:15
- L:1235 M:258 W: Mandatory Feature missing, <222> not found for SEQ ID#:15
- L:1235 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:15